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| Group Art Unit | N/A 1646 | | | | | | | | | | | | | | |
| Examiner Name | N/A Ruixiang Li | | | | | | | | | | | | | | |
| Attorney Docket Number | MPI99-037P1RCP1CN1M | | | | | | | | | | | | | | |
| Sheet | 1 | of | 7 | | | | | | | | | | | | |

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| RLi | C1 | Ashburner M., et al., Genetics 153 :179-219 (1999) | |
| | C2 | Copy of BLAST Search (Patent_2/gsnuc database) using the hLGR6 nucleotide sequence | |
| | C3 | Copy of BLAST Search (Patent_2/PatentDbPreviewNuc database) using the hLGR6 nucleotide sequence | |
| | C4 | Copy of BLAST Search (Patent_2/FastAlert_N.txt database) using the hLGR6 nucleotide sequence | |
| | C5 | Copy of BLAST Search (Patent_2/FastAlert_P.txt database) using the hLGR amino acid sequence | |
| | C6 | Copy of BLAST Search (Patent_2/gsprot database) using the hLGR amino acid sequence | |
| | C7 | Copy of BLAST Search (NRN/nuc database) using the hLGR nucleotide sequence | |
| | C8 | Copy of BLAST Search (NRO/protot database) using the hLGR amino acid sequence | |
| | C9 | DGENE Accession No. 1998N-V56989 for Human sperm surface protein 1-23 cDNA | |
| | C10 | DGENE Accession No. 1999P-W93889 for Human HG38 protein | |
| | C11 | DGENE Accession No. 1999P-W93890 for Human HG3 protein | |
| | C12 | DGENE Accession No. 1999P-W93904 for Human AOMF05 protein | |
| | C13 | DGENE Accession No. 1999P-W93905 for Human AOMF05 protein | |
| RLi | C14 | DGENE Accession No. 1999P-W93906 for Human AOMF05 protein | |

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| RLi | C15 | DGENE Accession No. 1999P-W93965 for Human AOMF05 protein | |
| | C16 | DGENE Accession No. 1999N-X23980 for Human HG38DNA | |
| | C17 | DGENE Accession No. 1999N-X23981 for Human HG38 protein | |
| | C18 | DGENE Accession No. 1999P-Y42168 for Human LGR4 protein sequence | |
| | C19 | DGENE Accession No. 1999P-Y42169 for Human LGR5 protein SEQUENCE | |
| | C20 | DGENE Accession No. 1999P-Y53574 for Human gonadotropin receptor partial sequence #4 | |
| | C21 | DGENE Accession No. 1999P-Y53575 for Human gonadotropin receptor partial sequence #5 | |
| | C22 | DGENE Accession No. 1999N-Z25343 for Human LGR4 nucleotide sequence | |
| | C23 | DGENE Accession No. 1999N-Z25344 for Human LGR5 nucleotide sequence | |
| | C24 | DGENE Accession No. 1999N-Z40457 for Human gonadotropin receptor partial coding sequence #1 | |
| | C25 | DGENE Accession No. 1999N-Z40460 for Human gonadotropin receptor partial coding sequence #4 | |
| | C26 | DGENE Accession No. 1999N-Z40461 for Human gonadotropin receptor partial coding sequence #5 | |
| | C27 | DGENE Accession No. 1999N-Z40463 for Human gonadotropin receptor partial coding sequence #7 | |
| RLi | C28 | Dohlman H., <i>Annu. Rev. Biochem.</i> 60:653-688 (1991) | |

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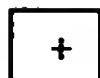
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| RLi | C29 | Dufau M., <i>Annu. Rev. Physiol.</i> 60:461-496 (1998) | | |
| RLi | C30 | Database EMBL 'Online! EBI; entry AI831861, accession number AI831861, 13 July 1999 (1999-07-13) NATIONAL CANCER INSTITUTE, CANCER GENOME ANATOMY PROJECT (CGAP): Homo sapiens cDNA clone similar to orphan G protein-coupled receptor HG38" XP002187010 mRNA sequence | | |
| | C31 | Database EMBL 'Online! EBI; entry HSCISG111, accession number Z44115, 6 November 1994 (1994-11-06) GENEEXPRESS: "H. sapiens partial cDNA sequence" XP002187011 cDNA sequence | | |
| | C32 | GenBank Accession No. AF061444 for Homo Sapiens G protein-coupled receptor LGR5 (LGR5) mRNA | | |
| | C33 | GenBank Accession No. AF061443 for Rattus norvegicus G protein-coupled receptor LGR4 (LGR4) mRNA | | |
| | C34 | GenBank Accession No. AF062006 for Homo Sapiens orphan G protein-coupled receptor HG38 mRNA | | |
| | C35 | GenBank Accession No. AF088074 for Homo Sapiens full length insert cDNA clone ZD96CO1 | | |
| | C36 | GenBank Accession No. P35379 for Follicle stimulating hormone receptor precursor (FSH-R) (Follitropin receptor) | | |
| | C37 | GenBank Accession No. P49059 for Follicle stimulating hormone receptor precursor (FSH-R) (Follitropin receptor) | | |
| | C38 | GenBank Accession No. P47799 for Follicle stimulating hormone receptor precursor (FSH-R) (Follitropin receptor) | | |
| | C39 | GenBank Accession No. AAB07030 for FSH-TSH | | |
| | C40 | GenBank Accession No. AAF44846 for hypothetical protein [Drosophila melanogaster] | | |
| RLi | C41 | GenBank Accession No. G51804 for SHGC-79247 Human Homo sapiens STS genomic, sequence tagged site | | |

Ruixiang Li

6/3/2005

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| RLi | C42 | GenBank Accession No. AF110818 for Mus musculus orphan G protein-coupled receptor FEX mRNA | | |
| | C43 | GenBank Accession No. AAC77910 for G protein-coupled receptor LGR4 [Rattus norvegicus] | | |
| | C44 | GenBank Accession No. JG0193 for G protein-coupled receptor FEX – mouse | | |
| | C45 | GenBank Accession No. AAD14684 for orphan G protein-coupled receptor FEX [Mus musculus] | | |
| | C46 | GenBank Accession No. AAC77911 for G protein-coupled receptor LGR5 [Homo sapiens] | | |
| | C47 | GenBank Accession No. AAC28019 for orphan G protein-coupled receptor HG38 [Homo sapiens] | | |
| | C48 | Gutkind J. Silvio, <i>The Journal of Biological Chemistry</i> 273(4):1839-1842 (1998) | | |
| | C49 | Hervey G. et al., <i>Biochemical and Biophysical Research Communications</i> 254:273-279 (1999) | | |
| | C50 | Holtzman E. J., et al., <i>Human Molecular Genetics</i> 2(8) :1201-1204 (1993) | | |
| | C51 | Hsu S. Y., et al., <i>Molecular Endocrinology</i> 12 :1830-1845 (1998) | | |
| | C52 | Ji T. H. et al., <i>Recent Progress in Hormone Research</i> 52:431-454 (1997) | | |
| | C53 | Juppner H. et al., <i>Science</i> 254 :1024-1026 (1991) | | |
| | C54 | Khan H. et al., <i>Biochemical and Biophysical Research Communications</i> 190(3) :888-894 (1993) | | |
| RLi | C55 | Klein P. S. et al., <i>Science</i> 241:1467-1472 (1988) | | |

RLi

Ruixiang Li 6/3/95

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| RLi | C56 | Kohn L. D., et al., <i>Vitamins and Hormones</i> 50 :287-384 (1995) | |
| | C57 | Kurjan J., <i>Annu. Rev. Biochem.</i> 61:1097-1129 (1992) | |
| | C58 | Lin H. Y., et al., <i>Science</i> 254:1022-1024 (1991) | |
| | C59 | McDonald T., et al., <i>Biochemical and Biophysical Research Communications</i> 247 :266-270 (1998) | |
| | C60 | McKusick V. A. et al., <i>J. Med. Genet.</i> 30:1-26 (1993) | |
| | C61 | Mikayana et al., <i>Proc. Natl. Acad. Sci. U.S.A.</i> 90:10056-10060 (1993) | |
| | C62 | Nakanishi S., <i>Science</i> 258:597-603 (1992) | |
| | C63 | Nathans J. et al., <i>Annu. Rev. Genet.</i> 26:403-424 (1992) | |
| | C64 | Remy J. J. et al., <i>Gene</i> 163:257-261 (1995) | |
| | C65 | Reppert et al., GenBank Accession No. U52218, July 28, 1996 | |
| | C66 | Reppert et al., GenBank Accession No. U52219, July 28, 1996 | |
| | C67 | Reppert et al., <i>FEBS Lett.</i> 386:219-224 (1996) | |
| | C68 | Reppert, S. M., et al., <i>FEBS Lett.</i> 386(2-3):219-224 (1996) | |
| RLi | C69 | Robert P. et al., <i>Biochemical and Biophysical Research Communications</i> 201(1):201-207 (1994) | |

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| RLi | C70 | Rodan, <i>Bone</i> 13:S3-S6 (1992) | |
| | C71 | Roth et al., <i>J. Biol. Chem.</i> 31:22041-22047 (1999) | |
| | C72 | Selbie L. A., <i>TIPS</i> 19:87-93 (1998) | |
| | C73 | Sheau Yu Hsu et al. "The three subfamilies of leucine-rich repeat-containing G protein-coupled receptors (LGR): Identification of LGR6 and LGR7 and the signaling mechanism for LGR7" <i>Molecular Endocrinology</i> 14(8):1257-1271 (August 2000) | |
| | C74 | Simoni M. et al., <i>Endocrine Reviews</i> 18(6):739-773 (1997) | |
| | C75 | Skolnick et al., <i>Nature Biotechnology</i> 18:283-287 (2000) | |
| | C76 | Spiegel A. M. et al., <i>The Journal of Clinical Investigation</i> 92:1119-1125 (1993) | |
| | C77 | <i>Stedman's Medical Dictionary</i> , Physicians' Desk Reference, Medical Economics Company Inc. (2002) | |
| | C78 | Stein, W. D., <i>Channels, Carriers, and Pumps: An Introduction to Membrane Transport</i> , Academic Press 1st Ed. Chapter 3: Ion Channels Across Cell Membranes:73-125 (1990) | |
| | C79 | Strader C. D. et al., <i>Annu. Rev. Biochem.</i> 63:101-132 (1994) | |
| | C80 | Voet et al., <i>Biochemistry - John Wiley & Sons, Inc.</i> :126-128 and 228-236 (1990) | |
| | C81 | Weaver and Reppert, <i>NeuroReport</i> 9:109-112 (1996) | |
| RLi | C82 | Wiren et al., <i>J. Endocrinol.</i> 175(3):683-694 (2002) | |

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| RLi | C83 | Yarney T. A. et al., <i>Molecular and Cellular Endocrinology</i> 93:219-226 (1993) | |
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| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document (MM-DD-YYYY) | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
| | | Code ⁵ Office ³ | Kind | Number ⁴ (if known) | | | | |
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| ↓ | B2 | WO | 99/15545 | | | 4/99 | | |
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| Examiner Signature | Ruixiang Li | Date Considered | 6/3/2005 |
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